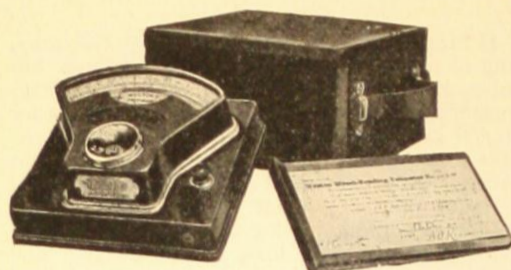


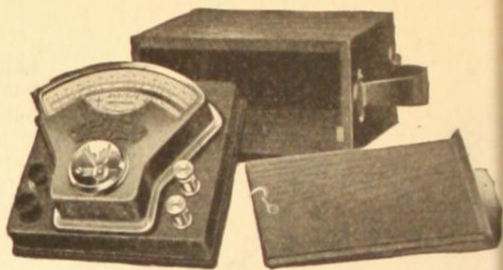
Weston Electrical Instrument Co.
Newark, New Jersey
in
Northern Electric Co., Ltd.
General Catalogue No. 4
(undated)

WESTON PORTABLE INSTRUMENTS

FOR DIRECT CURRENT MODEL 1



Voltmeter



Volt-ammeter

VOLTMETERS Single Range

Trade No.	Range in Volts	No. of Scale Divisions	Price Each	Trade No.	Range in Volts	No. of Scale Divisions	Price Each
182640	3	150	\$72.00	182646	250	125	\$81.25
182641	15	150	72.00	182647	300	150	81.25
182642	50	100	72.00	182648	500	100	81.25
182643	75	150	72.00	182649	600	120	81.25
182644	150	150	*68.75	182650	750	150	87.50
182645	150	150	72.00	.....	...	...	.....

Double Range

182651	{ 15 } 3 }	150	93.75	182655	{ 300 } 150 }	150	97.00
182652	{ 150 } 3 }	150	93.75	182656	{ 500 } 250 }	125	100.00
182653	{ 150 } 15 }	150	93.75	182657	{ 600 } 150 }	150	100.00
182654	{ 150 } 75 }	150	93.75	182658	{ 600 } 300 }	150	100.00
				182659	{ 750 } 150 }	150	100.00

Triple Range

182660	{ 150 } 15 } 3 }	150	106.25	182662	{ 750 } 300 } 150 }	150	112.50
182661	{ 300 } 150 } 3 }	150	109.50	.....	.....	.....	.....

Single and double range instruments are furnished with locking contact and key. Triple range instruments do not have contact key.

Single and double range instruments will be provided with a reversing switch instead of contact key at an additional cost of \$3.25.

*Furnished without contact key.

AMMETERS Single Range

Trade No.	Range in Amperes	No. of Scale Divisions	Price Each	Trade No.	Range in Amperes	No. of Scale Divisions	Price Each
182663	1	100	\$81.25	182672	50	100	\$81.25
182664	1.5	150	81.25	182673	100	100	87.75
182665	2	100	81.25	182674	150	150	93.75
182666	2.5	125	81.25	182675	200	100	100.00
182667	3	150	81.25	182676	250	125	100.00
182668	5	100	81.25	182677	300	150	100.00
182669	10	100	81.25	182678	400	80	112.50
182670	15	150	81.25	182679	500	100	112.50
182671	25	125	81.25	.....	...	...	.....

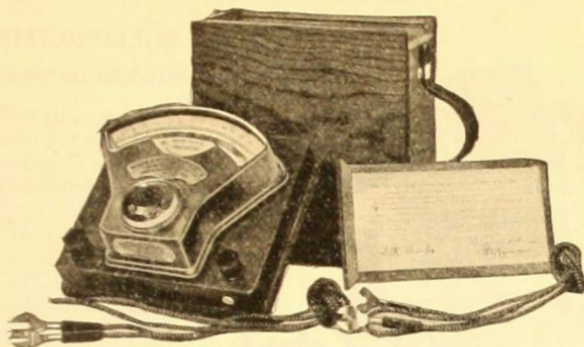
VOLT-AMMETERS

Trade No.	Range in Volts	Range in Amperes	No. of Scale Divisions	Price Each
182680	150	1.5	150	\$93.75
182681	150	3	150	93.75

Model 1 voltammeters of other ranges will be made on special order.

WESTON PORTABLE INSTRUMENTS

FOR DIRECT CURRENT



Milli-voltmeter

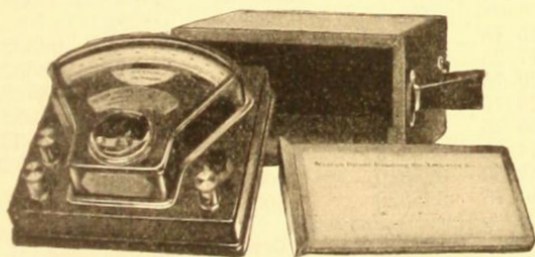
PORTABLE MILLI-VOLTMETERS

Model 1

Trade No.	Mfrs No.		Price Each
063171	1	Range, 0 to 20 milli-volts, 100 divisions, each representing .2 of a milli-volt, readable to .02 of a milli-volt.....	\$62.50
063172	2	Range, 10 to 0 to 10 milli-volts, zero center, 100 divisions, each representing .2 of a milli-volt, readable to .02 of a milli-volt.....	62.50
063173	3	Double range, 10 to 0 to 10 and 100 to 0 to 100 milli-volt, zero center, 100 divisions, supplied with contact key, by the use of which either range may be employed.....	68.75
063174	4	Double range, 0 to 20 and 0 to 200 milli-volts, three binding posts, 100 divisions, each representing either .2 of a milli-volt or 2 milli-volts, according to range used.....	68.75

These instruments may be arranged for use with alloy shunts for ampere measurements at an additional cost of \$6.25

PORTABLE MILLI-AMMETERS



Single Range

Trade No.	Mfrs. No.	Range Milli-amperes	Price Each
063175	0	150	\$62.50
063176	1	300	62.50
063179	4	1500	68.75

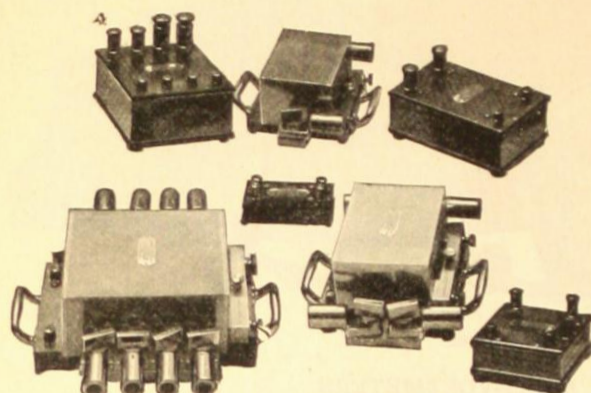
Double Range

063180	5	{ 500 50	75.00
063181	6	{ 500 10	75.00
063182	7	{ 500 10	93.75

No. 7 has same range and capacity as No. 6 but is supplied with a small resistance box or multiplier, having two coils. When this is connected in series with the instrument binding posts marked 10, the lower scale may be read directly in volts, a full scale deflection being secured with 0 or 100 volts, according to the coil of the multiplier used.

WESTON PORTABLE INSTRUMENTS

FOR DIRECT CURRENT



Standard Portable Special Alloy Shunts

MILLIVOLTMETERS, MODEL 1

With Shunts for Ampere Measurements

These millivoltmeters, in connection with Weston Patent Alloy Shunts, read directly in amperes. Shunts of different sizes can be adjusted to the same instrument, and it can, therefore, be used to measure a current of 2000 amperes with the same degree of accuracy as a current of 1 ampere. The combination of millivoltmeter and shunt is practically compensated for temperature and is correct within $\frac{1}{4}$ of 1 per cent. If, at any time, the user of this combination desires to employ additional ranges to those for which the instrument is already adjusted, it is simply necessary to purchase additional shunts of the ranges required, thus saving the expense of an additional instrument. The scales of the instrument can be divided into 100, 120 or 150 divisions. In selecting shunts of different range for use in connection with one instrument, it should be considered that the higher ranges must be even multiples of the lower one in order to suit the same scale on the instrument.

These shunts can be supplied in two or more ranges combined in one case, as indicated in price list below.

MILLIVOLTMETERS

Trade No.		Price Each
085304	Standard portable millivoltmeters.....	\$62.50

SHUNTS

With Single Range

Trade No.	Range in Amperes	Price Each	Trade No.	Range in Amperes	Price Each	Trade No.	Range in Amperes	Price Each
085305	1	\$13.75	085313	75	\$34.50	085321	600	\$75.75
085306	3	17.25	085314	100	41.25	085322	750	82.50
085307	5	20.75	085315	150	44.75	085323	800	89.50
085308	10	20.75	085316	200	48.25	085324	1000	110.00
085309	15	20.75	085217	250	51.75	085325	1500	178.75
085310	25	24.25	085318	300	55.00	085326	2000	240.75
085311	30	27.50	085319	400	62.00	.....	.....	.....
085312	50	30.75	085320	500	68.75	.....	.....	.....

With Two Ranges Combined in One Case

085327	5 and 1	27.50	085335	100 and 10	55.00	085343	400 and 200	89.50
085328	10 and 1	30.75	085336	150 and 15	58.50	085344	500 and 50	86.00
085329	15 and 1.5	34.50	085337	150 and 30	62.00	085345	500 and 100	89.50
085330	15 and 3	34.50	085338	200 and 20	65.50	085346	500 and 200	89.50
085331	30 and 3	34.50	085339	300 and 15	72.25	085347	600 and 60	89.50
085332	40 and 4	58.00	085340	300 and 30	75.75	085348	600 and 300	110.00
085333	50 and 5	41.25	085341	300 and 150	82.50	085349	750 and 300	123.75
085334	75 and 15	48.25	085342	400 and 40	82.50	085350	1000 and 500	192.50

With Three or More Ranges Combined in One Case

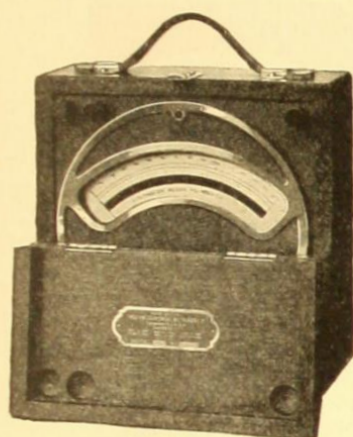
085351	15-3-0.75	41.25	085359	75-15-1.5	58.50	085367	150-75-15-1.5	89.50
085352	15-3-1.5	41.25	085360	100-10-1	62.00	085368	150-75-15-1.5-0.75	96.25
085353	30-15-1.5	48.25	085361	100-20-2	62.00	085369	200-20-2	75.75
085354	30-15-3	48.25	085362	100-50-20-2	82.50	085370	200-100-10	82.50
085355	30-15-7.5-1.5	65.50	085363	100-50-20-10-5-1	96.25	085371	300-15-1.5	82.50
085356	50-5-0.5	55.00	085364	150-15-1.5	68.75	085372	300-30-3	82.50
085357	50-10-1	55.00	085365	150-15-1.5-0.15	82.50	085373	300-75-15	89.50
085358	50-20-5-0.5	75.75	085366	150-75-15	75.75	.....	.....	.....

Above prices include adjustment between millivoltmeter and shunts.

WESTON PORTABLE INSTRUMENTS

FOR DIRECT CURRENT

MODEL 45



Voltmeter



Ammeter

The movement in the Model No. 45 instrument is completely enclosed in an iron case, securely fastened in a wooden carrying box, which protects it from stray magnetic fields.

This box is provided with a hinged cover, which protects the scale and binding posts. Ammeters, having a maximum range of 25 amperes or less, are provided with self-contained shunts. Higher ranges are adjusted to external station type shunts.

VOLTMETERS

Trade No.	Ranges in Volts	Value of Each Scale Division in Volts	Price Each
625	0- 3	.02	\$41.25
626	0- 5	.05	41.25
627	0- 15	.1	41.25
628	0-150	1	48.75
629	0-300	2	53.75
630	0-600	5	57.75
631	0-750	5	61.00

Double and triple range voltmeters will be furnished when desired in the combinations listed under Model 1 voltmeter. To determine the price of such instruments add \$8.25 for each additional range to the price as listed above for the highest range.

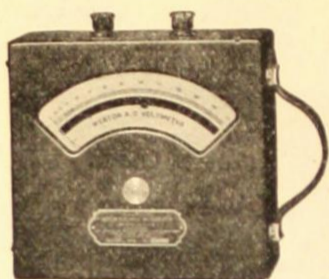
AMMETERS

Trade No.	Ranges in Amperes	Value of Each Scale Division in Amperes	Price Each
32	0- 5	.05	\$41.25
33	0- 15	.1	41.25
34	0- 25	.2	41.25
35	0- 50	.5	42.00
37	0-100	1	43.75
38	0-150	1	44.50
39	0-200	2	46.25
40	0-250	2	46.75
41	0-300	2	46.75
42	0-400	5	47.00
43	0-500	5	48.75

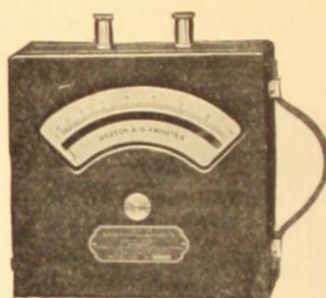
WESTON PORTABLE INSTRUMENTS

FOR ALTERNATING CURRENT

MODEL 155



Voltmeter



Ammeter

These instruments may be used on circuits of any frequency from 15 to 140 cycles per second without sensible error in their indications.

The various ranges of voltmeters listed are all self-contained. They include instruments adapted to a full scale deflection with 75 volts, to instruments to give a full scale deflection with 750 volts. For use with higher voltages multipliers or transformers must be used.

The ammeters listed may be used on circuits having a difference in potential of 2300 volts. For higher ranges or voltages transformers must be used.

VOLTMETERS

Trade No.	Range In Volts	DIMENSIONS, INCHES			Price Each
		Length	Width	Depth	
06951	75	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	\$33.75
06952	125	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	33.75
06953	150	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	34.50
06954	300	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	40.50
06955	500	7 $\frac{3}{4}$	8 $\frac{3}{4}$	4	47.00
06956	600	7 $\frac{3}{4}$	8 $\frac{3}{4}$	4	48.75
06957	750	7 $\frac{3}{4}$	8 $\frac{3}{4}$	4	52.75

All the above ranges of voltmeters are provided with self-contained resistances.

AMMETERS

Trade No.	Range In Amperes	DIMENSIONS, INCHES			Price Each
		Length	Width	Depth	
06958	1	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	\$32.75
06959	2	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	32.25
06960	3	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	31.25
06961	5	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	31.25
06962	10	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	31.25
06963	15	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	31.25
06964	25	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	31.25
06965	50	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	32.25
06966	75	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	32.25
06967	100	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	32.25
06968	150	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	33.00
06969	200	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	33.75
06970	250	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	34.50
06971	300	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	34.75
052636	400	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	38.00
052637	500	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	41.25

The current transformers must be used for the measurement of all the alternating currents greater than 500 amperes.

MILLIAMMETERS

Trade No.	Range in Milliammeters	DIMENSIONS, INCHES			Price Each
		Length	Width	Depth	
06972	75	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	\$32.75
06973	150	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	32.75
06974	250	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	32.75
06975	500	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	32.75
06976	750	7	7 $\frac{1}{8}$	3 $\frac{1}{4}$	32.75

WESTON PORTABLE INSTRUMENTS

For Alternating and Direct Current
WATTMETERS—MODEL 329—POLYPHASE



These instruments are contained in highly polished mahogany boxes, provided with carrying handles, locks, and covers equipped with slip hinges. The weight is approximately 17½ pounds. Dimensions are 9½x10½x8½ inches over all. This form of instrument really consists of two single-phase wattmeters, electrically independent, but having their movable coils mounted on a common shaft, so that they rotate together. Each coil, however, moves in its own system of field coils. The scales are uniform throughout their entire length, and are 5¼ inches long.

In general, the indications may be relied upon to within ½ of 1 per cent of full scale value on either direct current circuits or on alternating current circuits of any frequency up to 133 cycles per second and of any wave form.

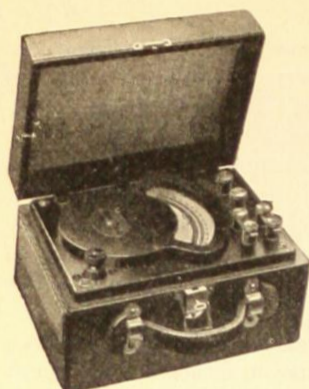
Normal 100/50, Maximum 150/75 Volts							
Trade No.	AMPERES		*WATT RANGES		No. of Scale Lines	Price Each	
	NORMAL Series	MAXIMUM Multiple	Field Coils in Series	Field Coils in Multiple			
131543	1	2	2	4	100	\$181.50	
131544	2.5	5	5	10	100	181.50	
131545	5	10	10	20	100	181.50	
131546	10	20	20	40	100	189.75	
Normal 150/75, Maximum 250/125 Volts							
131547	1	2	2	4	150	181.50	
131548	2.5	5	5	10	150	181.50	
131549	5	10	10	20	150	181.50	
131550	10	20	20	40	150	189.75	
Normal 200/100, Maximum 300/150 Volts							
131551	1	2	2	4	100	189.75	
131552	2.5	5	5	10	100	189.75	
131553	5	10	10	20	100	189.75	
131554	10	20	20	40	100	198.00	
Normal 300/150, Maximum 450/250 Volts							
131555	1	2	2	4	120	189.75	
131556	2.5	5	5	10	150	189.75	
131557	5	10	10	20	150	189.75	
131558	10	20	20	40	120	198.00	
Normal 500/100, Maximum 600/150 Volts							
131559	1	2	2	4	100	206.25	
131560	2.5	5	5	10	100	206.25	
131561	5	10	10	20	100	206.25	
131562	10	20	20	40	100	214.50	
Normal 600/150, Maximum 675/250 Volts							
131563	1	2	2	4	120	210.50	
131564	2.5	5	5	10	150	210.50	
131565	5	10	10	20	150	210.50	
131566	10	20	20	40	120	218.75	
Normal 600/300, Maximum 675/450 Volts							
131567	1	2	2	4	120	210.50	
131568	2.5	5	5	10	150	210.50	
131569	5	10	10	20	120	210.50	
131570	10	20	20	40	120	218.75	
Normal 750/150, Maximum 750/250 Volts							
131571	1	2	2	4	150	214.50	
131572	2.5	5	5	10	150	214.50	
131573	5	10	10	20	150	214.50	
131574	10	20	20	40	150	222.75	
Normal 750/300, Maximum 750/450 Volts							
131575	1	2	2	4	150	214.50	
131576	2.5	5	5	10	150	214.50	
131577	5	10	10	20	150	214.50	
131578	10	20	20	40	150	222.75	

*Ranges not marked K.W. read in watts.

WESTON PORTABLE INSTRUMENTS

For Alternating and Direct Current

WATTMETERS—MODEL 310—SINGLE-PHASE



These instruments represent the latest development in electro-dynamometer wattmeters and embody many characteristics hitherto considered unattainable in instruments of this class. They are contained in highly polished mahogany boxes, provided with carrying handles, locks, and covers equipped with slip hinges. The weight is approximately 11 pounds and the dimensions are $8 \times 10 \frac{1}{4} \times 5 \frac{3}{4}$ over all. The scales are $5 \frac{1}{4}$ inches long, uniform throughout their entire length, and are provided with mirrors to prevent parallax errors.

A reversing switch is provided by means of which the direction of the current through the movable coil may be changed without changing the direction through the rest of the potential circuit. This switch will be found very useful in connecting the wattmeter to circuits in which the polarity is not known. In addition to the reversing switch, a locking contact key is provided, by means of which the potential circuit may be opened.

In general, these instruments are guaranteed to an accuracy of $\frac{1}{4}$ of 1 per cent of full scale value for use on either direct current circuits or alternating current circuits of any frequency to 133 cycles per second and of any wave form. Each instrument is accompanied by a certificate, giving its electrical characteristics, general instructions for use, and diagram showing the correct binding posts to be employed for the various ranges.

Double ranges for both the current and voltage circuits are provided. These ranges are controlled by means of independent binding posts.

It will be noted from the table following that these instruments can be furnished with self-contained potential ranges up to 750 volts. For higher ranges, the use of potential transformers is recommended.

Multipliers with Y connected resistors, arranged so that the pressure circuit of single-phase wattmeters may be properly connected for use on 3-phase balanced systems, can be furnished. Prices on request.

MODEL 310 SINGLE-PHASE WATTMETERS

Normal 100/50, Maximum 150/75 Volts

Trade No.	AMPERES				*WATT RANGES		No. of Scale Lines	Price Each
	NORMAL Series	MULTIPLE	MAXIMUM Series	MULTIPLE	Field Coils in Series	Field Coils in Multiple		
131451	1	2	2	4	100/50	200/100	100	\$115.50
131452	2.5	5	5	10	250/125	500/250	125	115.50
131453	5	10	10	20	500/250	1000/500	100	115.50
131454	10	20	20	40	1/5 K.W.	2/1 K.W.	100	115.50
131455	20	40	40	80	2/1 K.W.	4/2 K.W.	100	123.75
131456	30	60	60	120	3/1.5 K.W.	6/3 K.W.	150	123.75
131457	50	100	75	150	5/2.5 K.W.	10/5 K.W.	100	123.75

Normal 150/75, Maximum 250/125 Volts

131458	1	2	2	4	150/75	300/150	150	115.50
131459	2.5	5	5	10	375/187.5	750/375	150	115.50
131460	5	10	10	20	750/375	1500/750	150	115.50
131461	10	20	20	40	1.5/.75 K.W.	3/1.5 K.W.	150	115.50
131462	20	40	40	80	3/1.5 K.W.	6/3 K.W.	150	123.75
131463	30	60	60	120	5/2.5 K.W.	10/5 K.W.	100	123.75
131464	50	100	75	150	7.5/3.75 K.W.	15/7.5 K.W.	150	123.75

Normal 200/100, Maximum 300/150 Volts

131465	1	2	2	4	200/100	400/200	100	123.75
131466	2.5	5	5	10	500/250	1000/500	100	123.75
131467	5	10	10	20	1/.5 K.W.	2/1 K.W.	100	123.75
131468	10	20	20	40	2/1 K.W.	4/2 K.W.	100	123.75
131469	20	40	40	80	4/2 K.W.	8/4 K.W.	100	132.00
131470	30	60	60	120	6/3 K.W.	12/6 K.W.	120	132.00
131471	50	100	75	150	10/5 K.W.	20/10 K.W.	100	132.00

Normal 300/150, Maximum 450/250 Volts

131472	1	2	2	4	300/150	600/300	150	123.75
131473	2.5	5	5	10	750/375	1500/750	150	123.75
131474	5	10	10	20	1.5/.75 K.W.	3/1.5 K.W.	150	123.75
131475	10	20	20	40	3/1.5 K.W.	6/3 K.W.	150	123.75
131476	20	40	40	80	6/3 K.W.	12/6 K.W.	120	132.00
131477	30	60	60	120	10/5 K.W.	20/10 K.W.	100	132.00
131478	50	100	75	150	15/7.5 K.W.	30/15 K.W.	150	132.00

*Ranges not marked K.W. read in watts.

WESTON PORTABLE INSTRUMENTS

FOR ALTERNATING AND DIRECT CURRENT

WATTMETERS—MODEL 310—SINGLE PHASE

Normal 500/100, Maximum 600/150 Volts

Trade No.	AMPERES				*WATT RANGES		No. of Scale Lines	Price Each
	Series	Multiple	Series	Multiple	Field Coils in Series	Field Coils in Multiple		
131490	1	2	2	4	500/100	1000/200	100	\$140.25
131491	2.5	5	5	10	1250/250	2500/500	125	140.25
131492	5	10	10	20	2500/500	5000/1000	100	140.25
131493	10	20	20	40	5/1 K.W.	10/2 K.W.	100	140.25
131494	20	40	40	80	10/2 K.W.	20/4 K.W.	100	148.50
131495	30	60	60	120	15/3 K.W.	30/6 K.W.	150	148.50
131496	50	100	75	150	25/5 K.W.	50/10 K.W.	100	148.50

Normal 600/150, Maximum 675/250 Volts

131497	1	2	2	4	600/150	1200/300	150	144.50
131498	2.5	5	5	10	1500/375	3000/750	150	144.50
131499	5	10	10	20	3/75 K.W.	6/1.5 K.W.	150	144.50
131500	10	20	20	40	6/1.5 K.W.	12/3 K.W.	150	144.50
131501	20	40	40	80	12/3 K.W.	24/6 K.W.	120	152.75
131502	30	60	60	120	20/5 K.W.	40/10 K.W.	100	152.75
131503	50	100	75	150	30/7.5 K.W.	60/15 K.W.	150	152.75

Normal 600/300, Maximum 675/450 Volts

131504	1	2	2	4	600/300	1200/600	120	144.50
131505	2.5	5	5	10	1.5/75 K.W.	3/1.5 K.W.	150	144.50
131506	5	10	10	20	3/1.5 K.W.	6/3 K.W.	150	144.50
131507	10	20	20	40	6/3 K.W.	12/6 K.W.	120	144.50
131508	20	40	40	80	12/6 K.W.	24/12 K.W.	120	152.75
131509	30	60	60	120	20/10 K.W.	40/20 K.W.	100	152.75
131510	50	100	75	150	30/15 K.W.	60/30 K.W.	150	152.75

Normal 750/150, Maximum 750/250 Volts

131511	1	2	2	4	750/150	1500/300	150	148.50
131512	2.5	5	5	10	1875/375	3750/750	150	148.50
131513	5	10	10	20	3750/750	7500/1500	150	148.50
131514	10	20	20	40	7.5/1.5 K.W.	15/3 K.W.	150	148.50
131515	20	40	40	80	15/3 K.W.	30/6 K.W.	150	156.75
131516	30	60	60	120	25/5 K.W.	50/10 K.W.	100	156.75
131517	50	100	75	150	37.5/7.5 K.W.	75/15 K.W.	150	156.75

Normal 750/300, Maximum 750/450 Volts

131518	1	2	2	4	750/300	1500/600	150	148.50
131519	2.5	5	5	10	2000/800	4000/1600	160	148.50
131520	5	10	10	20	3750/1500	7500/3000	150	148.50
131521	10	20	20	40	7.5/3 K.W.	15/6 K.W.	150	148.50
131522	20	40	40	80	15/6 K.W.	30/12 K.W.	150	156.75
131523	30	60	60	120	25/10 K.W.	50/20 K.W.	100	156.75
131524	50	100	75	150	37.5/15 K.W.	75/30 K.W.	150	156.75

* Ranges not marked K.W. read in watts.

SPECIAL MODEL 310 WATTMETERS FOR VERY LOW POWER FACTORS

For measurements in circuits where the power factor is very low, such as core losses in transformers, a special line of Weston Wattmeters has been designed, giving full scale deflection for 20 per cent power factor; that is, the scale value in watts is 20 per cent of the number of volt amperes applied. All wattmeters of this type, except the 1 and 0.5 ampere, are compensated for the power consumed in their potential circuits. A switch is provided by which the instrument may be used with or without this compensation.

The scales are uniform and the instruments have the same general characteristics as the regular model.

Maximum Volts 150/75

Trade No.	MAXIMUM CAPACITY, AMPERES		WATT RANGES		No. of Scale Lines	Price Each
	Fields in Series	Fields in Multiple	Fields in Series	Fields in Multiple		
131525	0.5	1	15/7.5	30/15	150	† \$132.00
131526	1	2	30/15	60/30	150	† 132.00
131527	2.5	5	75/37.5	150/75	150	132.00
131528	5	10	150/75	300/150	150	140.25
131529	10	20	300/150	600/300	150	140.25
131530	20	40	600/300	1200/600	120	140.25
131531	50	100	1500/750	3000/1500	150	140.25

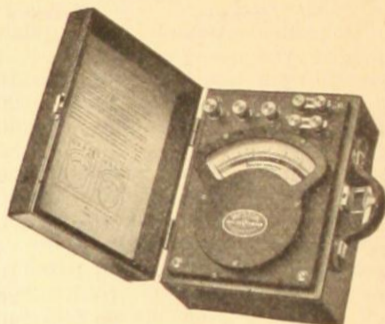
† These ranges are not compensated and are useful for special conditions only.

WESTON PORTABLE INSTRUMENTS

FOR ALTERNATING AND DIRECT CURRENT



Voltmeter, Model 341



Ammeter, Model 370

These instruments are electro-dynamometer meters and may be used with equal accuracy on either alternating current or direct current circuits.

They are contained in highly polished mahogany boxes, provided with carrying handles, locks and covers equipped with slip hinges. The weight is approximately 11 pounds, and the dimensions are $8 \times 10 \frac{1}{4} \times 5 \frac{3}{4}$ inches over all.

Owing to the principle of operation, these instruments cannot be made with a uniform scale, but the upper two-thirds of the scale is remarkably uniform. The length of the scale is $5 \frac{1}{4}$ inches.

The scales are accurately hand calibrated to each cardinal division by direct comparison with standards, and the intermediate steps are subdivided with great care.

VOLTMETERS—MODEL 341

Single Range

Trade No.	Range Volts	Approx. Resistance Ohms	Price Each	Trade No.	Range Volts	Approx. Resistance Ohms	Price Each
131401	1	2	\$107.25	131409	15	100	\$103.25
131402	1.5	3	107.25	131410	30	470	99.00
131403	2	4	107.25	131411	75	1180	99.00
131404	3	6	107.25	131412	120	2700	99.00
131405	5	18	107.25	131413	150	3300	99.00
131406	7.5	50	103.25	131414	300	6700	103.25
131407	10	66	103.25	131415	600	20000	111.50
131408	12	80	103.25	131416	750	25000	115.50

Double Range

131417	5-1	10-2	115.50	131424	150-75	3300-1650	107.25
131418	15-1.5	30-3	115.50	131425	300-150	6700-3350	111.50
131419	3-1.5	6-3	115.50	131426	600-150	20000-5000	119.75
131420	6-3	21-10.5	115.50	131427	600-300	20000-10000	119.75
131421	15-7.5	100-50	111.50	131428	750-150	25000-5000	123.75
131422	30-15	300-150	111.50	131429	750-300	25000-10000	123.75
131423	120-60	2700-1350	107.25	.....	.....	.....	.....

AMMETERS—MODEL 370

Milliammeters—Single Range

Trade No.	Range Milliamps.	Approx. Resistance Ohms	Price Each	Trade No.	Range Milliamps.	Approx. Resistance Ohms	Price Each
131430	15	1400	\$111.50	131436	150	19.5	\$111.50
131431	20	720	111.50	131437	200	7.5	111.50
131432	30	350	111.50	131438	300	3.2	111.50
131433	50	167	111.50	131439	500	1.2	111.50
131434	75	50	111.50	131440	750	.9	111.50
131435	100	26.5	111.50	.....	.....	.....	.....

Ammeters—Double Range

Trade No.	Range Amps.	Price Each	Trade No.	Range Amps.	Price Each
131441	2-1	\$123.75	131443	10-5	\$123.75
131442	5-2 $\frac{1}{2}$	123.75	.....	.....	.....

WESTON PORTABLE CURRENT AND POTENTIAL TRANSFORMERS

For Use With Portable Alternating Current Instruments

PORTABLE CURRENT TRANSFORMERS

Two forms of Weston Portable Current Transformers are made. One of these forms is a self-contained type, both the primary and secondary windings constituting an integral part of the structure. This type is designated Model 312.

In the other form the secondary winding alone is an integral part of the structure, and the primary winding is inserted in the transformer by the user at the time of making a measurement. This form is therefore known as the inserted primary type, and designated Model 313.

The cores of these models are rectangular in shape and are constructed of thin laminations of special iron alloy punched from solid sheet, so that there are no joints in the magnetic circuit.

Model 312

This type is made in three current capacities, each having three ranges. The primary winding is wound over the secondary, insulated from it, and consists of four sections of insulated copper strips wound side by side in independent spirals in planes perpendicular to the core. The sections can be connected in series, in series-multiple, or all in multiple to obtain the various ratios. To facilitate the changes in ratio, the terminals of the windings are connected to contact blocks forming a plug switch mounted on the insulated top.

Secondary, 5 amperes. Test, 10000 volts for one minute. Capacity, 25 volt-amperes. Frequency, 25 to 133 cycles.

Trade No.	Ratio	Price Each
131590	10- 20- 40 amperes to 5 amperes.....	\$81.75
131591	25- 50-100 amperes to 5 amperes.....	81.75
131592	50-100-200 amperes to 5 amperes.....	81.75

Model 313

This type is designed for the measurement of currents in excess of 200 amperes. It consists of a core wound with the secondary winding only, enclosed in a wooden box provided with an opening through which the primary, made of a cable or busbar, may be passed by the user. This type of transformer is much more universally useful for higher range measurements than the self-contained type for the reason that the ratio may be changed at will to suit the conditions of measurement.

Secondary, 5 amperes. Test, 10000 volts for one minute. Capacity, 25 volt-amperes. Frequency, 25 to 133 cycles.

Trade No.	Ratio with One Turn	Size Opening Inches	Price Each
131593	1200 amperes to 5 amperes.....	2x3 $\frac{7}{8}$	\$63.25
131594	1800 amperes to 5 amperes.....	2x3 $\frac{1}{2}$	66.75
131595	2400 amperes to 5 amperes.....	2x4 $\frac{7}{8}$	70.75

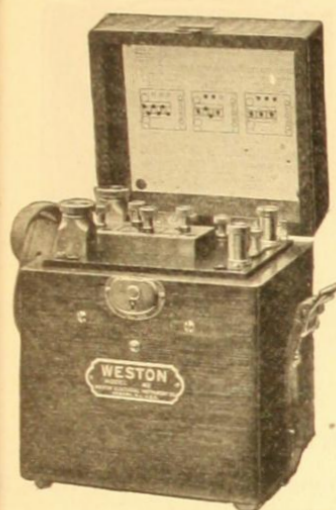
PORTABLE POTENTIAL TRANSFORMERS

Model 311

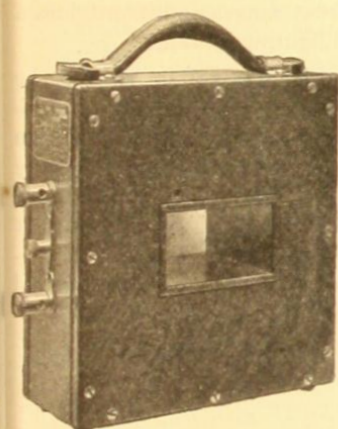
Made in three voltage capacities, each having a double-voltage range. The double range feature is obtained by having the primary winding made in two similar sections, which can be connected in series or in multiple by means of links conveniently located on the insulating top of the transformer case.

Secondary, 110 volts. Capacity, 15 volt-amperes. Frequency, 25 to 133 cycles.

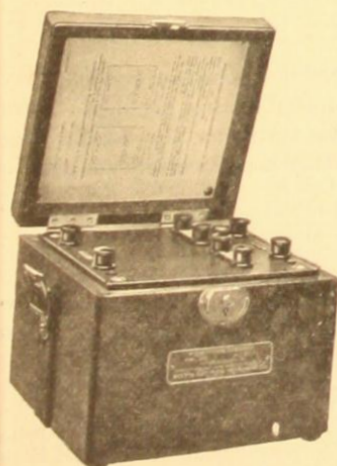
Trade No.	Ratio	Price Each
131596	2200-1100 volts to 110 volts.....	\$74.25
131597	1100- 550 volts to 110 volts.....	70.75
131598	440- 220 volts to 110 volts.....	66.75



Model 312

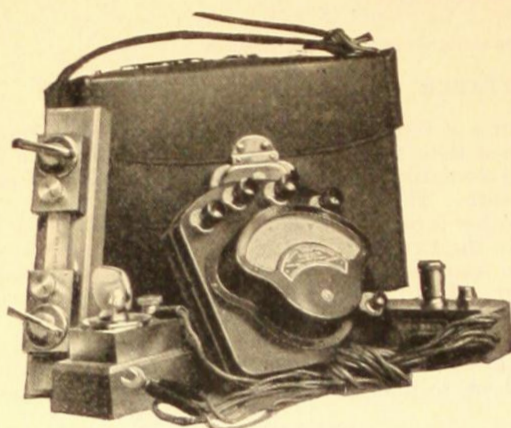


Model 313

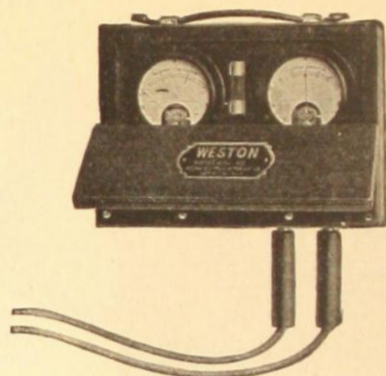


Model 311

WESTON GARAGE TESTING INSTRUMENTS



Model 280



Model 441

MODEL 280 TESTING INSTRUMENTS

The Weston Model 280 Garage Testing Instrument has six ranges as follows: 30 volts, 3 volts and .1 volt (100 millivolts), 300 amperes, 30 amperes and 3 amperes.

A large number of tests can be made with this combination of ranges. This instrument is the equivalent of six separate electrical measuring instruments of different ranges and it provides a means of making any tests that are necessary on electric starting and lighting systems.

Ordinarily, six instruments of this size would cost in the neighborhood of \$80.00, so that the remarkably low price named on this Model 280 garage testing instrument will be readily appreciated, and especially will its low cost be realized when it is borne in mind that Model 280 is an instrument of the highest grade procurable in its size. It is a standard Weston product, fully guaranteed by the maker and it may be depended upon for accuracy, serviceability and durability that has never been acquired except by other Weston models, and then only in instruments of much higher price. In short, it is a thoroughly reliable instrument of precision, offered in a convenient size and at a price that enables a garage proprietor to obtain a full and permanent electrical testing equipment at an insignificant cost.

A small booklet which describes the Model 280 thoroughly will be sent upon request.

Trade No.	Description	Price Each
109586	Complete as above, without leather carrying case.....	\$41.25
109587	Carrying case to contain instrument and shunt.....net	5.00

MODEL 441 FAULT FINDERS

The Model 441 consists of an ammeter and a voltmeter mounted in a compact wooden carrying box. The ammeter has a range of 30-0-30 amperes and is protected against accidental burn-out by means of a replaceable glass enclosed automobile fuse. The voltmeter is a double range instrument having ranges of 2-0-30 and 0.2-0-3 volts. The latter range is particularly adapted for making cadmium tests.

Each instrument is provided with a zero correcting device.

Both instruments have uniform scales.

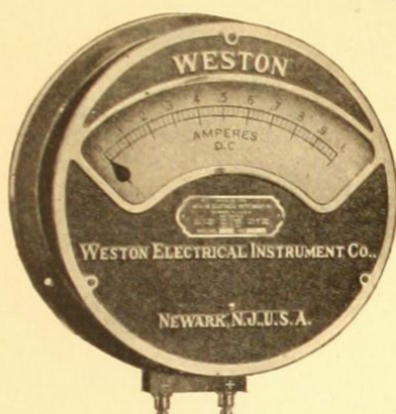
Connection between the instrument and the circuit under test is made by means of two eight foot cables having plugs on one end and lead covered clips on the other. The plugs fit into receptacles in the instrument.

A complete instruction book accompanies each instrument.

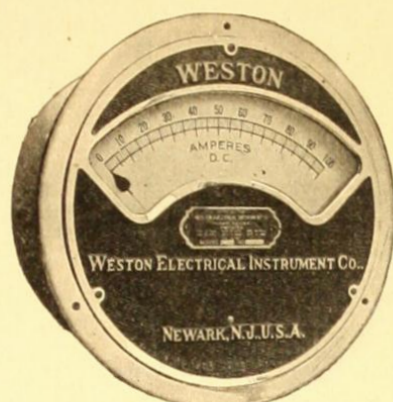
Trade No.	Description	Price Each
109588	Complete as above.....	\$36.25
109589	Cadmium Test Lead.....net	2.75

WESTON ROUND PATTERN STATION INSTRUMENTS

FOR DIRECT CURRENT
MODEL 57



Regular Type



Flush Type

Diameter of front, $8\frac{1}{16}$ inches; diameter of flanged base, $9\frac{9}{16}$ inches; total depth, $4\frac{3}{8}$ inches; length of scale, $6\frac{1}{2}$ inches; weight, 15 pounds; weight packed, 22 pounds; packing case, 8x10x14 inches.

Case is of cast iron, dustproof and neatly finished, affording effectual protection against external magnetic influences. Made in three patterns: Regular, back connection, and flush type. The scale is drawn on opaque paper, and hence cannot be illuminated from the rear.

VOLTMETERS

Regular Type Trade No.	Flush Type Trade No.	Range in Volts	Number of Scale Divisions	Price Each
016573	016585	3	60	\$37.50
016574	016586	6	60	37.50
016575	016587	15	75	37.50
016576	016588	25	50	39.00
016577	016589	50	50	39.75
016578	016590	75	75	41.00
016579	016591	130	65	42.50
016580	016592	150	75	44.25
016581	016593	250	50	47.25
016582	016594	300	60	48.75
016583	016595	600	60	52.50
016584	016596	750	75	55.50

AMMETERS

Regular Type Trade No.	Flush Type Trade No.	Range in Amperes	Number of Scale Divisions	Price Each
016531	016552	1	50	\$37.50
016532	016553	5	50	37.50
016533	016554	10	50	37.50
016534	016555	15	75	37.50
016535	016556	25	50	37.50
016536	016557	50	50	38.25
016537	016558	75	75	39.00
016538	016559	100	50	39.75
016539	016560	150	75	40.50
016540	016561	200	40	42.00
016541	016562	250	50	42.50
016542	016563	300	60	42.50
016543	016564	400	40	44.25
016544	016565	500	50	45.75
016545	016566	600	60	47.25
016546	016567	750	75	48.75
016547	016568	1000	50	50.25
016548	016569	1200	60	59.00
016549	016570	1500	75	65.75
016550	016571	2000	40	68.00
016551	016572	2500	50	

The above prices are for No. 11 dull black japan finish.

No extra charge will be made for above instruments with back connection or flush type cases. Always specify the style desired, when ordering.

Ammeters up to and including 75 amperes will be supplied as self contained instruments unless otherwise specified. All other ranges have external shunts.

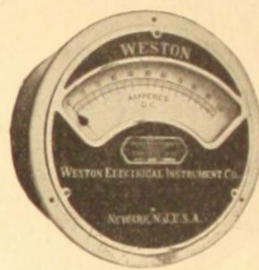
WESTON ROUND PATTERN STATION INSTRUMENTS

FOR DIRECT CURRENT

MODEL 24



Regular Type



Flush Type

Diameter of front, $6\frac{5}{8}$ inches; diameter of flanged base, $7\frac{1}{4}$ inches; total depth, 4 inches, length of scale, $5\frac{1}{16}$ inches, weight, 9 pounds; weight packed, 15 pounds; packing case, 10x10x11 inches.

VOLTMETERS

Regular Type Trade No.	Flush Type Trade No.	Range in Volts	Number of Scale Divisions	Price Each
016598	016611	0- 3	60	\$25.50
016599	016612	0- 5	50	25.50
016600	016613	0- 6	60	25.75
016601	016614	0- 10	50	26.50
016602	016615	0- 15	75	26.50
016603	016616	0- 25	50	26.50
016604	016617	0- 50	50	26.50
016605	016618	0- 80	40	26.50
016606	016619	0-130	65	27.25
016607	016620	0-150	75	28.00
016608	016621	0-250	50	32.25
016609	016622	0-300	60	33.75
016610	016623	0-600	60	43.75

AMMETERS

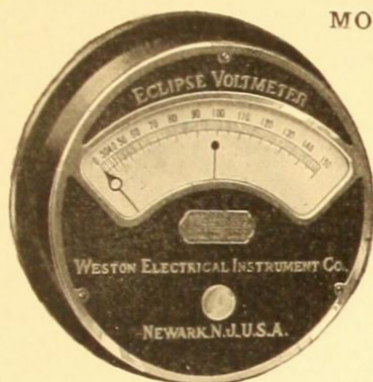
Regular Type Trade No.	Flush Type Trade No.	Range in Amperes	Number of Scale Divisions	Price Each
016624	016635	0- 1	50	\$24.75
016625	016636	0- 5	50	24.75
016626	016637	0- 10	50	24.75
016627	016638	0- 15	75	25.50
016628	016639	0- 25	50	25.50
016629	016640	0- 50	50	26.25
016630	016641	0- 80	40	26.25
016631	016642	0-100	50	26.50
016632	016643	0-130	65	27.25
016633	016644	0-150	75	27.25
016634	016645	0-200	40	28.00

Ammeters having a range of 80 amperes or less will be supplied as self contained unless otherwise specified. Other ranges have external shunts.

The above prices are for No. 11 dull black japan finish.

WESTON ECLIPSE SWITCHBOARD INSTRUMENTS

FOR DIRECT CURRENT
MODELS 160 AND 159



Model 160



Model 159

These instruments are intended for use as ammeters and voltmeters on direct current switchboards. They are of the "movable iron" or "electro-magnetic type," but in their electrical and mechanical characteristics they are so far in advance of all preceding forms of movable iron instruments, as to mark a new epoch in that type of instrument. They are so much better than most permanent magnet instruments, and they possess the advantage of being much lower in price.

In sensitiveness, or power to promptly respond to minute changes in potential difference, or to minute changes in current strength, they also closely approach the Weston permanent magnet instruments.

In their damping qualities they also closely approach the Weston permanent magnet type of instrument.

AMMETERS

Trade No.	Range Amperes	Price Each
06462	1	\$25.50
06463	2	25.50
06464	3	25.25
06465	5	24.75
06466	10	24.75
06467	15	24.75
06468	25	24.75
06469	50	26.50
06470	75	26.50
06471	100	27.25
06472	150	27.25
06475	200	28.00
06476	250	29.00
06477	300	29.75
06478	400	30.50
06479	500	32.25

AMMETERS

Model 159		
06487	1	19.75
06488	2	19.75
06490	3	19.50
06491	5	19.00
06492	10	19.00
06493	15	19.00
06494	25	19.00
06495	50	20.75
06496	75	20.75
06497	100	21.50
06498	150	21.50
06499	200	22.25
06500	250	23.00
06505	300	24.00
06506	400	24.75
06508	500	26.50

VOLTMETERS

Trade No.	Range Volts	Price Each
06480	75	\$26.50
06481	125	26.50
06482	150	26.50
06483	300	29.75
06484	500	33.75
06485	600	35.50
06486	750	37.25

Voltmeters with a range above 150 volts are provided with external resistances.

Diameter of case, 9.56 inches.
Depth of case, 3.15 inches.
Length scale arc, 6.50 inches.

VOLTMETERS

Model 159		
06510	75	19.75
06511	125	19.75
06512	150	19.75
06513	300	24.00
06515	500	26.50
06848	600	28.00
06849	750	29.75

Voltmeters with a range above 150 volts are provided with external resistances.

Diameter of case, 7.25 inches.
Depth of case, 3.15 inches.
Length scale arc, 5.25 inches.

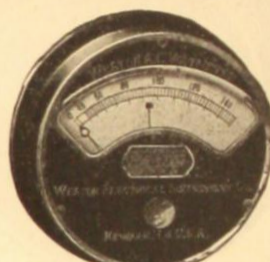
WESTON SWITCHBOARD INSTRUMENTS

FOR ALTERNATING CURRENT

MODELS 151 AND 156



Model 151



Model 156

The case of each ammeter is provided with a "ground terminal," which must, in order to ensure safety to the user, be connected to earth when the potential difference of circuits exceeds 200 volts. When properly erected, the ammeters are perfectly safe for use on circuits operating on a potential difference of 2300 volts, but must be used with transformers on circuits of higher potential difference.

Transformers must be used on all circuits carrying over 500 amperes, and we recommend a value of 5 amperes for the secondary, and will calibrate the instrument the value of the primary so that the instrument will be direct reading.

AMMETERS

Model 151

Trade No.	Range Amperes	Price Each
06850	1	\$29.50
06851	2	29.00
06852	3	28.00
06853	5	28.00
06854	10	28.00
06855	15	28.00
06856	25	28.00
06857	50	29.00
06858	75	29.00
06859	100	29.00
06860	150	29.75
06861	200	30.50
06862	250	31.00
06863	300	31.25
06864	400	32.25
06865	500	33.00

AMMETERS

Model 156

06873	1	23.00
06874	2	22.75
06875	3	22.25
06876	5	22.25
06877	10	22.25
06878	15	22.25
06879	25	22.25
06880	50	22.75
06881	75	22.75
06882	100	22.75
06883	150	23.75
06884	200	24.25
06885	250	24.75
06886	300	25.50
06887	400	27.25
06888	500	29.00

VOLTMETERS

Model 151

Trade No.	Range Volts	Price Each
06866	75	\$30.50
06867	125	30.50
06868	150	31.00
06869	300	37.25
06870	500	43.75
06871	600	45.50
06872	750	49.50

Voltmeters with a range above 300 volts are provided with external resistances.

Diameter of case, 9.56 inches.

Depth of case, 3.15 inches.

Length of scale arc, 6.5 inches.

VOLTMETERS

Model 156

06889	75	24.00
06890	130	24.00
06891	150	24.50
06892	300	30.50
06893	500	32.25
06894	600	34.75
06895	750	38.75

Voltmeters with a range above 300 volts are provided with external resistances.

Diameter of case, 7.25 inches.

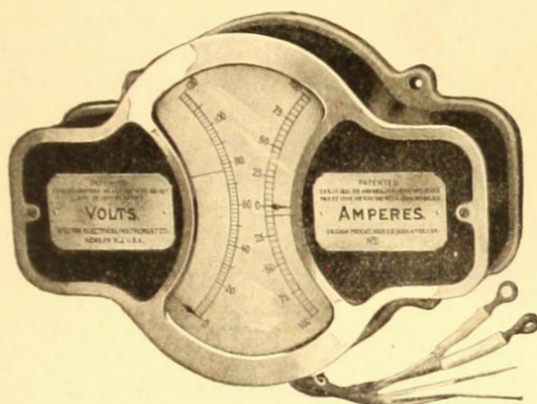
Depth of case, 3.15 inches.

Length of scale arc, 5.25 inches.

WESTON DUPLEX INSTRUMENTS

FOR DIRECT CURRENT

MODELS 38 AND 39



75 VOLTS

Model 38	Model 39		
Trade No.	Trade No.	Range for Amp. Scale in Amperes	Price Each
016115	016124	10	\$57.75
016116	016125	25	57.75
016117	016126	50	57.75
016118	016127	100	57.75
016119	016128	150	57.75
016120	016129	200	65.50
016121	016130	300	66.00
016122	016131	400	66.50
016123	016132	500	67.75

150 VOLTS

Model 38	Model 39		
Trade No.	Trade No.	Range for Amp. Scale in Amperes	Price Each
016133	016142	10	\$57.75
016134	016143	25	57.75
016135	016144	50	57.75
016136	016145	100	57.75
016137	016146	150	57.75
016138	016147	200	69.00
016139	016148	300	69.25
016140	016149	400	69.75
016141	016150	500	71.00

300 VOLTS

Model 38	Model 39			Model 38	Model 39		
Trade No.	Trade No.	Range for Amp. Scale in Amperes	Price Each	Trade No.	Trade No.	Range for Amp. Scale in Amperes	Price Each
016151	016160	10	\$69.00	016156	016114	200	\$73.50
016152	016161	25	69.00	016157	016165	300	74.00
016153	016162	50	69.75	016158	016166	400	74.25
016154	016163	100	71.00	016159	016167	500	75.75
016155	016164	150	71.75	.....	.....	...	.....

DIMENSIONS

MODEL 39.—Length, 9½ inches; width, 7 inches; height or depth, 3¼ inches; weight, 8 pounds. Case made of aluminum.

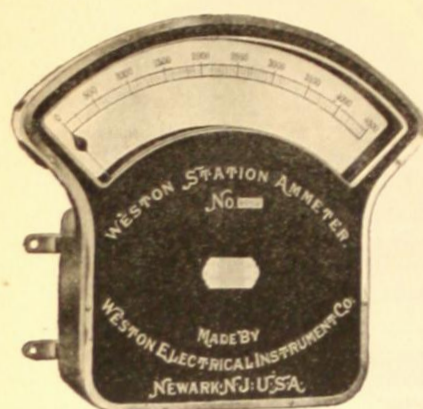
MODEL 38.—Length, 11 inches; width, 8½ inches; height or depth, 3⅞ inches; weight, 17 pounds. Case made of iron.

MODEL 39.—Has an aluminum case and was originally designed and was largely used as an automobile instrument. It is therefore practically waterproof, and built to stand, without injury, the constant vibration of such vehicles. Suitable for small switchboard work, especially on motor starter switchboards.

WESTON ILLUMINATED-DIAL STATION INSTRUMENTS

MODEL 11

FOR DIRECT CURRENT



Cases for these meters are supplied in two patterns. The one is intended to be attached by means of two brackets directly to and projecting from the front of the switchboard. The other, known as "flush type," is designed to be countersunk so that the front of the instrument is practically flush with the face of the board. The cases are regularly finished in dull black japan.

AMMETERS

Trade No.	Range Amperes	Value of Each Scale Division in Amperes	Price with Shunt Each	Price Shunt only Each
07060	200	2	\$106.00	\$5.00
07061	250	5	106.00	5.50
07062	300	5	106.50	5.50
07063	400	5	106.75	5.75
07064	500	5	108.25	7.50
07065	600	10	110.00	9.00
07066	750	10	111.50	10.75
07067	1000	10	113.25	12.50
07068	1200	20	115.00	14.00
07069	1500	20	124.50	23.75
07070	2000	20	131.75	30.75
07071	2500	50	134.50	33.50
07072	3000	50	138.00	37.25
07073	3500	50	143.00	42.00
07074	4000	50	150.50	49.50
07075	4500	50	162.75	62.00
07076	5000	50	175.25	74.25
07077	6000	100	187.50	86.75
07078	7000	100	200.00	99.00
07079	8000	100	224.75	123.75
07080	10000	100	249.50	148.50

VOLTMETERS

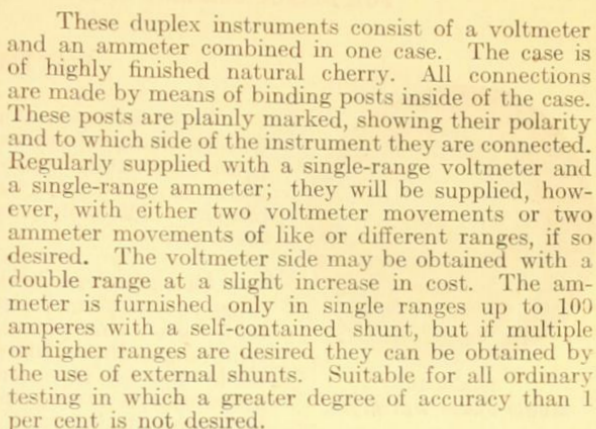
Trade No.	Range Volts	Value of Each Scale Division in Volts	Price Each	Trade No.	Range Volts	Value of Each Scale Division in Volts	Price Each
07081	130	2	\$99.00	07085	300	5	\$104.25
07082	150	2	100.50	07086	600	10	105.50
07083	180	2	101.75	07087	750	10	107.00
07084	250	5	102.75	.....	...	..	.....

These prices are for No. 11 dull black japanned finish.

Flush type supplied at the same prices, if specially ordered.

FOR DIRECT CURRENT

MODEL 56 PORTABLE DUPLEX INSTRUMENTS

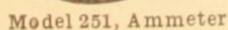
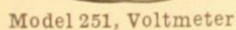


RANGE, AMPERES																	
5 Amps.			15 Amps.			25 Amps.			50 Amps.			100 Amps.			150 Amps.		
Range	Trade	Price	Trade	Price	Trade	Price	Trade	Price	Trade	Price	Trade	Price	Trade	Price	Trade	Price	
Volts	No.	Each	No.	Each	No.	Each	No.	Each	No.	Each	No.	Each	No.	Each	No.	Each	
75	085384	\$74.25	085390	\$74.25	085396	\$74.25	085402	\$74.25	085408	\$74.25	085414	\$74.25					
150	085385	78.50	085391	78.50	085397	78.50	085403	78.50	085409	78.50	085415	78.50					
300	085386	82.50	085392	82.50	085398	82.50	085404	82.50	085410	82.50	085416	82.50					
450	085387	86.75	085393	86.75	085399	86.75	085405	86.75	085411	86.75	085417	86.75					
600	085388	90.75	085394	90.75	085400	90.75	085406	90.75	085412	90.75	085418	90.75					
750	085389	99.00	085395	99.00	085401	99.00	085407	99.00	085413	99.00	085419	99.00					
200 Amps.			250 Amps.			300 Amps.			400 Amps.			500 Amps.					
75	085420	79.25	085426	79.25	085432	79.75	085438	80.00	085444	80.75	.....	.....			
150	085421	83.25	085427	83.25	085433	84.00	085439	84.25	085445	85.75	.....	.....			
300	085422	87.50	085428	87.50	085434	88.00	085440	88.25	085446	90.00	.....	.....			
450	085423	91.50	085429	91.50	085435	92.25	085441	92.50	085447	94.00	.....	.....			
600	085424	95.75	085430	95.75	085436	96.25	085442	96.50	085448	98.25	.....	.....			
750	085425	104.00	085431	104.00	085437	104.50	085443	104.75	085449	106.50	.....	.....			

If the voltmeter is desired with a double range, add \$5.00 to list price of highest range desired.

MODEL 251 SWITCHBOARD INSTRUMENTS

For use on exciter panels and other direct current panels, which may form a part of an alternating current switchboard, a special form of permanent magnet moving coil instrument has been developed. These instruments are mounted in sheet metal cases having the same design and base and front dimensions as the Weston A. C. Wattmeters, etc. The scales are drawn to harmonize with those used on the A. C. soft iron voltmeters.



Voltmeters			Voltmeters		
Trade No.	Range Volts	Price Each	Trade No.	Range Volts	Price Each
085450	125	\$46.75	085453	300	\$53.75
085451	150	48.75	085454	600	57.75
085452	250	52.00	085455	750	61.00
Ammeters					
Trade No.	Range Amperes	Price Each	Trade No.	Range Amperes	Price Each
085456	5	\$41.25	085464	200	\$46.25
085457	10	41.25	085465	250	46.75
085458	15	41.25	085466	300	46.75
085459	25	41.25	085467	400	47.00
085460	50	42.00	085468	500	48.75
085461	75	43.00	085469	600	50.25
085462	100	43.75	085470	750	52.00
085463	150	44.50			
Dimensions					

Dimensions
Diameter of case, $9\frac{5}{8}$ inches; depth of case, $3\frac{7}{8}$ inches;
length of scale arc, $6\frac{5}{8}$ inches.

WESTON SWITCHBOARD INSTRUMENTS

FOR DIRECT CURRENT AND SINGLE-PHASE CIRCUITS

WATTMETERS, MODEL 167



Model 167
Single-phase Wattmeter

These wattmeters may be used with equal accuracy and without change of calibration, on direct current circuits or single-phase alternating current circuits of any frequency, power-factor or wave form, within the limits of usual commercial practice. The scale is uniform throughout the entire range of deflection.

All ranges are back-connected. Meters above 300 volts range have external resistance box. For ranges above 750 volts, both current and potential transformers are used, and for current ranges above 100 amperes current transformers must be used. For use with current transformers, the 5-ampere range instrument is recommended. These instruments may also be had in full flush cases for a slight extra charge.

100 to 150 Volts

Trade No.	Range Amperes	Scale	Price Each	Trade No.	Range Amperes	Scale	Price Each
085491	1	150 watts	\$68.75	085497	20	2 kw.	\$68.75
085492	2	300 watts	68.75	085498	20	3 kw.	68.75
085493	5	500 watts	68.75	085499	50	5 kw.	68.75
085494	5	750 watts	68.75	085500	50	7.5 kw.	68.75
085495	10	1 kw.	68.75	085501	100	10 kw.	77.00
085496	10	1.5 kw.	68.75	085502	100	15 kw.	77.00

200 to 300 Volts

085503	1	300 watts	77.00	085510	20	6 kw.	77.00
085504	2	600 watts	77.00	085511	20	7.5 kw.	77.00
085505	5	1 kw.	77.00	085512	50	10 kw.	77.00
085506	5	1.5 kw.	77.00	085513	50	15 kw.	77.00
085507	10	2 kw.	77.00	085514	100	20 kw.	84.00
085508	10	3 kw.	77.00	085515	100	30 kw.	84.00
085509	20	4 kw.	77.00	.....	...	.....	.....

400 to 600 Volts

085516	1	600 watts	84.00	085522	20	8 kw.	84.00
085517	2	1.2 kw.	84.00	085523	20	12 kw.	84.00
085518	5	2 kw.	84.00	085524	50	20 kw.	84.00
085519	5	3 kw.	84.00	085525	50	30 kw.	84.00
085520	10	4 kw.	84.00	085526	100	49 kw.	92.25
085521	10	6 kw.	84.00	085527	100	60 kw.	92.25

600 to 750 Volts

985528	1	750 watts	92.25	085534	20	10 kw.	92.25
085529	2	1.5 kw.	92.25	085535	20	15 kw.	92.25
085530	5	2.5 kw.	92.25	085536	50	25 kw.	92.25
085531	5	4 kw.	92.25	085537	50	40 kw.	92.25
085532	10	5 kw.	92.25	085538	100	50 kw.	103.25
085533	10	7.5 kw.	92.25	085539	100	75 kw.	103.25

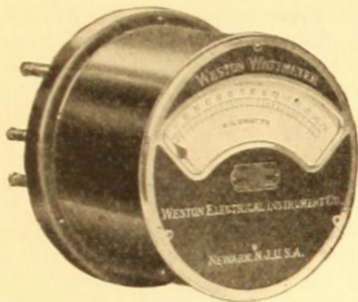
Dimensions

Diameter of case, $9\frac{5}{8}$ inches; depth of case, $3\frac{7}{8}$ inches; length of scale arc, $6\frac{5}{8}$ inches.

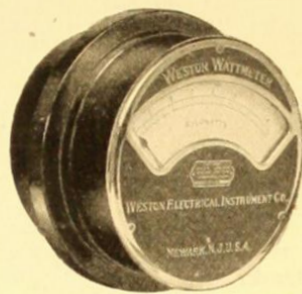
WESTON SWITCHBOARD INSTRUMENTS

FOR POLYPHASE CIRCUITS

WATTMETERS, MODEL 216



Model 216, Full-front Type
Polyphase Wattmeter



Model 216, Semi-flush Type
Polyphase Wattmeter

These wattmeters may be used with equal accuracy and without change of calibration, on direct current circuits or alternating current circuits of any frequency, power-factor or wave form, within the limits of usual commercial practice. The scale is uniform throughout the entire range of deflection.

These instruments have precisely the same characteristics as Model 167. All ranges are back-connected. Meters above 300 volts range have external resistance box. For ranges above 750 volts, both current and potential transformers are used, and for current ranges above 100 amperes current transformers must be used. For use with current transformers, the 5-ampere range instrument is recommended. They are regularly furnished with either one of two styles of case, namely: Full-front, and semi-flush. The semi-flush type projects beyond the front of the board just sufficiently to bring the front of the instrument in the same plane with other Weston A. C. Switchboard Instruments. Full flush instruments may be had at slight extra cost.

100 to 150 Volts

Trade No.	Range Amperes	Scale Kilowatts	Price Each	Trade No.	Range Amperes	Scale Kilowatts	Price Each
085560	5	1	\$96.25	085566	20	7.5	\$96.25
085561	5	1.5	96.25	085567	50	10	96.25
085562	10	2	96.25	085568	50	15	96.25
085563	10	3	96.25	085569	100	20	103.25
085564	20	4	96.25	085570	100	30	103.25
085565	20	6	96.25	.....	...	...	.....

200 to 300 Volts

085571	5	2	103.25	085576	20	12	103.25
085572	5	3	103.25	085577	50	20	103.25
085573	10	4	103.25	085578	50	30	103.25
085574	10	6	103.25	085579	100	40	110.00
085575	20	8	103.25	085580	100	60	110.00

400 to 600 Volts

085581	5	4	110.00	085586	20	30	110.00
085582	5	6	110.00	085587	50	40	110.00
085583	10	8	110.00	085588	50	60	110.00
085584	10	12	110.00	085589	100	80	117.00
085585	20	20	110.00	085590	100	120	117.00

600 to 750 Volts

085591	5	5	117.00	085596	20	30	117.00
085592	5	7.5	117.00	085597	50	50	117.00
085593	10	10	117.00	085598	50	75	117.00
085594	10	15	117.00	085599	100	100	123.75
085595	20	20	117.00	085600	100	150	123.75

Dimensions

Kind of Instrument	SIZE, CASE, INCHES Diam.	Depth	Length of Scale Arc Inches
Full-front, three-phase, 5 to 20 amperes.....	9 1/16	6 11/32	6 5/8
Full-front, three-phase, 50 to 100 amperes.....	9 3/16	6 11/32	6 5/8
Full-front, two-phase, 5 to 20 amperes.....	9 1/16	6 3/32	6 5/8

WESTON SWITCHBOARD INSTRUMENTS

FOR ALTERNATING CURRENT

SYNCHROSCOPES, MODEL 226

100 to 125 Volts

Model 226
Synchroscope

Consist of a phase angle indicator mounted with its pointer behind a ground glass, and illuminated by a small synchronizing lamp installed behind the pointer and connected to synchronizing light. A difference in frequency between two machines causes the pointer to swing back and forth, but owing to the fact that the lamp is lighted only half the time the pointer is seen only during every other swing, and thus appears to rotate continuously in one direction. When the machines have the same frequency but are out of phase, the pointer comes to rest at one side or the other of the middle of the scale. Perfect synchronism is indicated by the pointer remaining at rest in the middle of the scale with the lamp lighted. The indications are absolutely infallible.

Dimensions

Every synchroscope includes a lamp transformer, a condenser and a resistor mounted in a separate box. When used for other voltages than 100 to 125, potential transformers must be used. Can be calibrated for any frequency.

Trade No.	Cycles	Price Each	Trade No.	Cycles	Price Each
084946	25	\$86.00	084948	50	\$86.00
084947	40	86.00	084949	60	86.00

Diameter of case, $9\frac{5}{8}$ inches; depth of case, $3\frac{7}{8}$ inches; length of scale arc, $6\frac{5}{8}$ inches.

POWER-FACTOR METERS, MODEL 215

Model 215
Power-Factor Meter

These instruments indicate, from $2/10$ load to full load, the true phase angle to within 1 per cent, independent of any variable conditions found on ordinary commercial circuits. Polyphase meters may be used on any commercial frequency. Single-phase meters require a phase-splitting device, and therefore must be calibrated for the frequency at which they are to operate. Specify frequency when ordering.

Polyphase meters are arranged for the following systems: two-phase, three-wire; and three-phase, three-wire balanced loads. Meters above 150-volt range are equipped with external resistance box. All meters have the same kind of scale, reading from 0.50 lag to 0.50 lead. Special scales for power-factors as low as 0.30 may be had at slight extra cost. May also be arranged as reactive factor meters.

Range Amperes	Scale	100-150 V.		Polyphase 200-300 V.		400-600 V.		600-750 V.	
		Trade No.	Price Each	Trade No.	Price Each	Trade No.	Price Each	Trade No.	Price Each
5	5-1-5	084950	\$75.75	084955	\$82.50	084960	\$96.25	084965	\$103.25
10	5-1-5	084951	75.75	084956	82.50	084961	96.25	084966	103.25
20	5-1-5	084952	82.50	084957	89.50	084962	103.25	084967	110.00
50	5-1-5	084953	82.50	084958	89.50	084963	103.25	084968	110.00
100	5-1-5	084954	89.50	084959	96.25	084964	110.00	084969	117.00

Price of single-phase meters, including auxiliary device for splitting the phase, is \$13.75 more than the corresponding range polyphase meter listed above. When ordering single phase meters, always specify the frequency.

Dimensions

Diameter of case, $9\frac{5}{8}$ inches; depth of case, $3\frac{7}{8}$ inches; length of scale arc, $6\frac{5}{8}$ inches.

FREQUENCY METERS, MODEL 214

Model 214
Frequency Meter

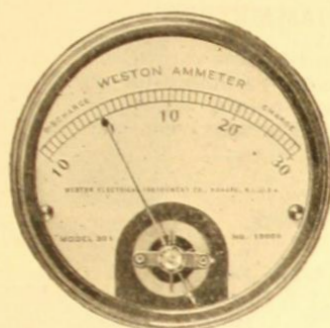
The indications are independent of changes of temperature voltage and wave form, such as may be encountered in the commercial circuits of to-day. Made for use on 110 and 220 volt circuits. For voltage ranges outside of this, potential transformers must be used. Every frequency meter is provided with an external box, which contains reactors and resistors.

Trade No.	Cycles	Price Each	Trade No.	Cycles	Price Each
084971	25	\$82.50	084973	60	\$82.50
084972	40	82.50	084974	125	82.50
084976	50	82.50	084975	133	82.50

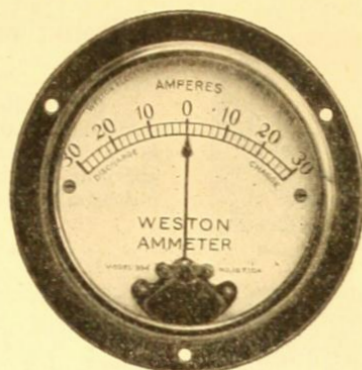
For 220-volt instrument add \$7.00 to above prices.

WESTON AUTOMOBILE INSTRUMENTS

MODELS 301 AND 354



Model 301-Surface Type



Model 354-Flush Type

MODEL 301

These instruments are specially built for the cowl or dashboard with a full knowledge of the exacting requirements of automobile and motor boat service.

They are designed for continuous reliability, operate upon the permanent magnet movable coil principle, and like all other Weston models, are constructed with the most conscientious regard for the service for which they are intended.

Model 301 instruments are made in two styles of cases, surface type and flush type.

Surface type: Diameter of case, 2.75 inches. Depth of case, 1.234 inches. Length of scale, 2.35 inches.

Flush type: Diameter of case, 3.25 inches. Depth of case, 1.171 inches. Length of scale, 2.35 inches.

Finished either in dead black japan or nickel.

AMMETERS—ZERO LEFT

Surface Type Flush Type			Surface Type Flush Type				
Trade No.	Trade No.	Range	Price Each	Trade No.	Trade No.	Range	Price Each
115846	115867	0-1	\$8.00	115888	115907	0-8	\$8.00
115847	115868	0-1.5	8.00	115889	115908	0-10	8.00
115848	115869	0-2	8.00	115890	115909	0-12	8.00
115849	115870	0-2.5	8.00	115891	115910	0-15	8.00
115850	115871	0-3	8.00	115892	115911	0-20	8.00
115851	115872	0-4	8.00	115893	115912	0-25	8.00
115852	115873	0-5	8.00	115894	115913	0-30	8.00

AMMETERS—ZERO CENTER

115853	115874	1-0-1	115895	115914	10-0-10	8.00
115854	115875	1.5-0-1.5	115934	115935	10-0-30	8.00
115855	115876	2-0-2	115896	115915	15-0-15	8.00
115856	115877	3-0-3	115897	115916	20-0-20	8.00
115857	115878	5-0-5	115898	115917	30-0-30	8.00

VOLTMETERS—ZERO LEFT

115858	115879	0-1	115899	115918	0-10	8.00
115859	115880	0-1.5	115900	115919	0-12	8.00
115860	115881	0-2	115901	115920	0-15	8.00
115861	115882	0-2.5	115902	115921	0-20	8.00
115862	115883	0-3	115903	115922	0-25	8.00
115863	115884	0-4	115904	115923	0-30	8.00
115864	115885	0-5	115905	115924	0-40	8.00
115865	115886	0-8	115906	115925	0-50	8.00

VOLTMETERS—ZERO CENTER

115866	115887	3-0-3	8.00			
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MODEL 354

Designed expressly for use on the dashboard of automobiles, motor boats or motor-cycles equipped with electric starting and lighting devices. The mechanical workmanship is of the highest grade and the electrical characteristics are such that the instrument may be depended upon to give perfect satisfaction and reliable indications under the extremely severe conditions of automobile service. Made in flush type, diameter over flange $2\frac{3}{4}$ inches, and in surface type, diameter, $2\frac{1}{4}$ inches.

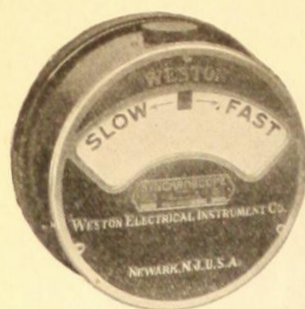
115926	115928	10-0-10	4.25	115930	115932	20-0-20	4.25
115927	115929	15-0-15	4.25	115931	115933	30-0-30	4.25

WESTON SWITCHBOARD INSTRUMENTS

FOR ALTERNATING CURRENT

SYNCHROSCOPES, MODEL 226

100 to 125 Volts

Model 226
Synchroscope

Consist of a phase angle indicator mounted with its pointer behind a ground glass, and illuminated by a small synchronizing lamp installed behind the pointer and connected to synchronize light. A difference in frequency between two machines causes the pointer to swing back and forth, but owing to the fact that the lamp is lighted only half the time the pointer is seen only during every other swing, and thus appears to rotate continuously in one direction. When the machines have the same frequency but are out of phase, the pointer comes to rest at one side or the other of the middle of the scale. Perfect synchronism is indicated by the pointer remaining at rest in the middle of the scale with the lamp lighted. The indications are absolutely infallible.

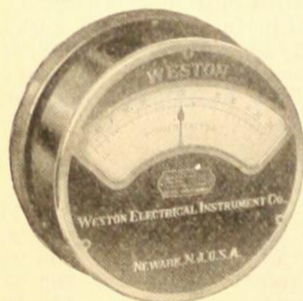
Dimensions

Every synchroscope includes a lamp transformer, a condenser and a resistor mounted in a separate box. When used for other voltages than 100 to 125, potential transformers must be used. Can be calibrated for any frequency.

Trade No.	Cycles	Price Each	Trade No.	Cycles	Price Each
084946	25	\$86.00	084948	50	\$86.00
084947	40	86.00	084949	60	86.00

Diameter of case, $9\frac{5}{8}$ inches; depth of case, $3\frac{7}{8}$ inches; length of scale arc, $6\frac{5}{8}$ inches.

POWER-FACTOR METERS, MODEL 215

Model 215
Power-Factor Meter

These instruments indicate, from 2/10 load to full load, the true phase angle to within 1 per cent, independent of any variable conditions found on ordinary commercial circuits. Polyphase meters may be used on any commercial frequency. Single-phase meters require a phase-splitting device, and therefore must be calibrated for the frequency at which they are to operate. Specify frequency when ordering.

Polyphase meters are arranged for the following systems: two-phase, three-wire; and three-phase, three-wire balanced loads. Meters above 150-volt range are equipped with external resistance box. All meters have the same kind of scale, reading from 0.50 lag to 0.50 lead. Special scales for power-factors as low as 0.30 may be had at slight extra cost. May also be arranged as reactive factor meters.

Range Amperes Scale	100-150 V.		200-300 V.		400-600 V.		600-750 V.	
	Trade No.	Price Each	Trade No.	Price Each	Trade No.	Price Each	Trade No.	Price Each
5 5-1-5	084950	\$75.75	084955	\$82.50	084960	\$96.25	084965	\$103.25
10 5-1-5	084951	75.75	084956	82.50	084961	96.25	084966	103.25
20 5-1-5	084952	82.50	084957	89.50	084962	103.25	084967	110.00
50 5-1-5	084953	82.50	084958	89.50	084963	103.25	084968	110.00
100 5-1-5	084954	89.50	084959	96.25	084964	110.00	084969	117.00

Price of single-phase meters, including auxiliary device for splitting the phase, is \$13.75 more than the corresponding range polyphase meter listed above. When ordering single phase meters, always specify the frequency.

Dimensions

Diameter of case, $9\frac{5}{8}$ inches; depth of case, $3\frac{7}{8}$ inches; length of scale arc, $6\frac{5}{8}$ inches.

FREQUENCY METERS, MODEL 214

Model 214
Frequency Meter

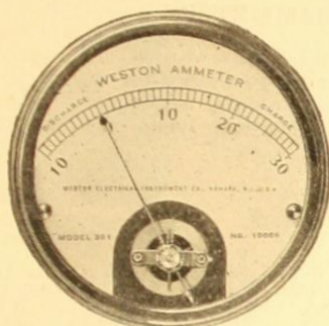
The indications are independent of changes of temperature voltage and wave form, such as may be encountered in the commercial circuits of to-day. Made for use on 110 and 220 volt circuits. For voltage ranges outside of this, potential transformers must be used. Every frequency meter is provided with an external box, which contains reactors and resistors.

Trade No.	Cycles	Price Each	Trade No.	Cycles	Price Each
084971	25	\$82.50	084973	60	\$82.50
084972	40	82.50	084974	125	82.50
084976	50	82.50	084975	133	82.50

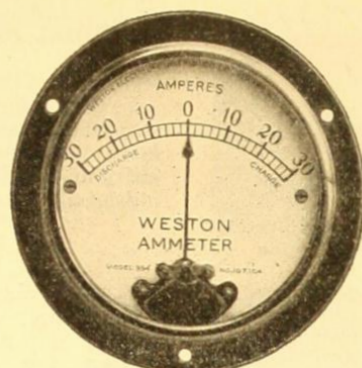
For 220-volt instrument add \$7.00 to above prices.

WESTON AUTOMOBILE INSTRUMENTS

MODELS 301 AND 354



Model 301-Surface Type



Model 354-Flush Type

MODEL 301

These instruments are specially built for the cowl or dashboard with a full knowledge of the exacting requirements of automobile and motor boat service.

They are designed for continuous reliability, operate upon the permanent magnet movable coil principle, and like all other Weston models, are constructed with the most conscientious regard for the service for which they are intended.

Model 301 instruments are made in two styles of cases, surface type and flush type.

Surface type: Diameter of case, 2.75 inches. Depth of case, 1.234 inches. Length of scale, 2.35 inches.

Flush type: Diameter of case, 3.25 inches. Depth of case, 1.171 inches. Length of scale, 2.35 inches.

Finished either in dead black japan or nickel.

AMMETERS—ZERO LEFT

Surface Type		Flush Type		Surface Type		Flush Type			
Trade No.	Trade No.	Range	Price Each	Trade No.	Trade No.	Range	Price Each		
115846	115867	0-1	\$8.00	115888	115907	0-8	\$8.00		
115847	115868	0-1.5	8.00	115889	115908	0-10	8.00		
115848	115869	0-2	8.00	115890	115909	0-12	8.00		
115849	115870	0-2.5	8.00	115891	115910	0-15	8.00		
115850	115871	0-3	8.00	115892	115911	0-20	8.00		
115851	115872	0-4	8.00	115893	115912	0-25	8.00		
115852	115873	0-5	8.00	115894	115913	0-30	8.00		

AMMETERS—ZERO CENTER

115853	115874	1-0-1	8.00	115895	115914	10-0-10	8.00
115854	115875	1.5-0-1.5	8.00	115934	115935	10-0-30	8.00
115855	115876	2-0-2	8.00	115896	115915	15-0-15	8.00
115856	115877	3-0-3	8.00	115897	115916	20-0-20	8.00
115857	115878	5-0-5	8.00	115898	115917	30-0-30	8.00

VOLTMETERS—ZERO LEFT

115858	115879	0-1	8.00	115899	115918	0-10	8.00
115859	115880	0-1.5	8.00	115900	115919	0-12	8.00
115860	115881	0-2	8.00	115901	115920	0-15	8.00
115861	115882	0-2.5	8.00	115902	115921	0-20	8.00
115862	115883	0-3	8.00	115903	115922	0-25	8.00
115863	115884	0-4	8.00	115904	115923	0-30	8.00
115864	115885	0-5	8.00	115905	115924	0-40	8.00
115865	115886	0-8	8.00	115906	115925	0-50	8.00

VOLTMETERS—ZERO CENTER

115866	115887	3-0-3	8.00				
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MODEL 354

Designed expressly for use on the dashboard of automobiles, motor boats or motor-cycles equipped with electric starting and lighting devices. The mechanical workmanship is of the highest grade and the electrical characteristics are such that the instrument may be depended upon to give perfect satisfaction and reliable indications under the extremely severe conditions of automobile service. Made in flush type, diameter over flange $2\frac{3}{4}$ inches, and in surface type, diameter, $2\frac{1}{4}$ inches.

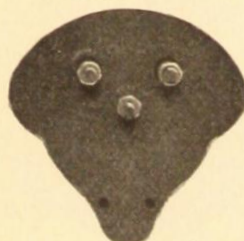
115926	115928	10-0-10	4.25	115930	115932	20-0-20	4.25
115927	115929	15-0-15	4.25	115931	115933	30-0-30	4.25

WESTON MINIATURE PRECISION INSTRUMENTS

FOR DIRECT CURRENT

MODEL 267 SWITCHBOARD VOLTMETERS, AMMETERS
AND MILLIAMMETERS

This group of instruments consists of a variety of ranges of small switchboard ammeters and voltmeters, suitable for use in small isolated lighting plants, small power plants, signal systems, battery charging panels, and for all kinds of service where small switchboard indicating instruments are needed.

Model 267 Voltmeter
Front ViewModel 267 Voltmeter
Rear ViewModel 267 Ammeter
Front ViewModel 267 Ammeter
Rear ViewModel 268
Front ViewModel 268
Rear View

Voltsmeters

Trade No.	Range	Price Each	Trade No.	Range	Price Each	Trade No.	Range	Price Each
084867	1	\$16.25	084876	7.5	\$16.25	084885	50	\$16.25
084868	1.2	16.25	084877	8	16.25	084886	60	16.25
084869	1.5	16.25	084878	10	16.25	084887	75	16.25
084870	2	16.25	084879	12	16.25	084888	80	16.25
084871	2.5	16.25	084880	15	16.25	084889	100	16.25
084872	3	16.25	084881	20	16.25	084890	120	16.25
084873	4	16.25	084882	25	16.25	084891	130	16.25
084874	5	16.25	084883	30	16.25	084892	150	16.25
084875	6	16.25	084884	40	16.25	.....	...	.....

Ammeters

084893	1	16.25	084899	4	16.25	084905	12	16.25
084894	1.2	16.25	084900	5	16.25	084906	15	16.25
084895	1.5	16.25	084901	6	16.25	084907	20	16.25
084896	2	16.25	084902	7.5	16.25	084908	25	16.25
084897	2.5	16.25	084903	8	16.25	084909	30	16.25
084898	3	16.25	084904	10	16.25	.....	...	.....

Ammeters with External Shunts

For high ampere readings, Model 267 will be furnished as a millivoltmeter adjusted to external shunts. Information and prices relative to such instruments will be supplied upon application.

Dimensions

Vertical, 3.35 inches; horizontal, 4.1 inches; depth, 1.1 inches.

MODEL 268 SWITCHBOARD VOLTAMMETERS

Adapted for use in electrolytic work, charging and discharging small storage batteries, and for service in connection with direct current ignition systems for gas and gasoline engines, and in all classes of work in which a single instrument is necessary for indicating either potential difference or current.

Trade No.	Volts	Amperes	Price Each	Trade No.	Volts	Amperes	Price Each
084910	10-0-15	10-0-15	\$24.75	084918	5-0-15	10-0-30	\$24.75
084911	10-0-15	2-0-3	24.75	084919	5-0-10	5-0-10	24.75
084912	10-0-15	20-0-30	24.75	084920	10-0-20	2-0-4	24.75
084913	7.5-0-15	7.5-0-15	24.75	084921	5-0-10	1-0-2	24.75
084914	7.5-0-15	15-0-30	24.75	084922	5-0-10	10-0-20	24.75
084915	7.5-0-15	1.5-0-3	24.75	084923	10-0-20	5-0-10	24.75
084916	1.5-0-3	7.5-0-15	24.75	084924	10-0-20	1-0-2	24.75
084917	5-0-15	1-0-3	24.75	084925	10-0-20	10-0-20	24.75

Dimensions

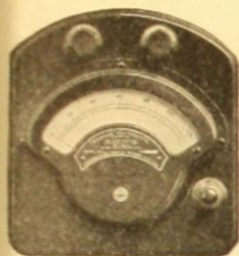
Vertical, 4.25 inches; horizontal, 4.2 inches; depth, 1.35 inches.

WESTON MINIATURE PRECISION INSTRUMENTS

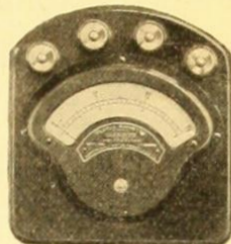
FOR DIRECT CURRENT

MODEL 280—PORTABLE INSTRUMENTS

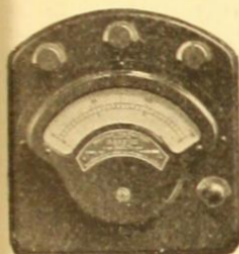
These instruments are all the same size and can be carried in an ordinary coat pocket. They are made in a great variety of ranges and are admirably adapted to all kinds of commercial and experimental testing that falls within their limits of e.m.f. and current.



Single Range Voltmeter



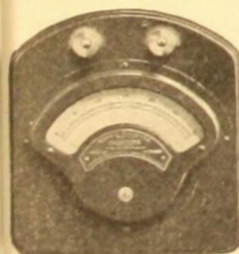
Triple Range Ammeter



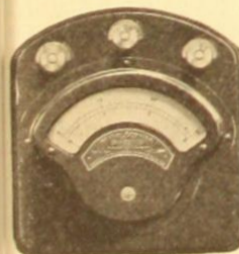
Double Range Voltmeter



Triple Range Voltmeter



Single Range Ammeter



Double Range Ammeter

Single Range Millivoltmeters

Trade No.	Range	Price Each	Trade No.	Range	Price Each	Trade No.	Range	Price Each
085002	50	\$18.75	085007	120	\$18.75	085012	300	\$18.75
085003	60	18.75	085008	130	18.75	085013	400	18.75
085004	75	18.75	085009	150	18.75	085014	500	18.75
085005	80	18.75	085010	200	18.75	085015	600	18.75
085006	100	18.75	085011	250	18.75	085016	750	18.75

Single Range Voltmeters

085017	1	18.75	085026	7.5	18.75	085035	50	18.75
085018	1.2	18.75	085027	8	18.75	085036	60	18.75
085019	1.5	18.75	085028	10	18.75	085037	75	18.75
085020	2	18.75	085029	12	18.75	085038	80	18.75
085021	2.5	18.75	085030	15	18.75	085039	100	18.75
085022	3	18.75	085031	20	18.75	085040	120	18.75
085023	4	18.75	085032	25	18.75	085041	130	18.75
085024	5	18.75	085033	30	18.75	085042	150	18.75
085025	6	18.75	085034	40	18.75	.....	.....	.....

Double Range Voltmeters

085043	20-2	21.75	085046	30-3	21.75	085049	80-8	21.75
085044	20-8	21.75	085047	50-2.5	21.75	085050	100-10	21.75
085045	25-2.5	21.75	085048	50-5	21.75	085051	150-15	21.75

Triple Range Voltmeters

085052	25-10-2.5	24.75	085056	40-20-4	24.75	085060	80-20-4	24.75
085053	30-3-1.5	24.75	085057	50-5-2.5	24.75	085061	100-25-2.5	24.75
085054	30-6-3	24.75	085058	50-25-5	24.75	085062	150-15-1.5	24.75
085055	30-15-3	24.75	085059	50-25-10	24.75	085063	150-15-3	24.75

Single Range Milliammeters

085064	50	18.75	085069	120	18.75	085074	300	18.75
085065	60	18.75	085070	130	18.75	085075	400	18.75
085066	75	18.75	085071	150	18.75	085076	500	18.75
085067	80	18.75	085072	200	18.75	085077	600	18.75
085068	100	18.75	085073	250	18.75	085078	750	18.75

Single Range Ammeters

085079	1	18.75	085085	4	18.75	085091	12	18.75
085080	1.2	18.75	085086	5	18.75	085092	15	18.75
085081	1.5	18.75	085087	6	18.75	085093	20	18.75
085082	2	18.75	085088	7.5	18.75	085094	25	18.75
085083	2.5	18.75	085089	8	18.75	085095	30	18.75
085084	3	18.75	085090	10	18.75	.....	.....	.....

Double Range Ammeters

085096	1-0.1	21.75	085100	8-2	21.75	085104	25-2.5	21.75
085097	2.5-0.25	21.75	085101	10-1	21.75	085105	25-5	21.75
085098	5-0.1	21.75	085102	15-1.5	21.75	085106	30-3	21.75
085099	5-0.5	21.75	085103	20-2	21.75	.....	.....	.....

Triple Range Ammeters

085107	5-2.5-0.25	24.75	085113	20-4-2	24.75	085122	25-10-5	24.75
085108	10-1-0.1	24.75	085114	20-8-2	24.75	085118	30-3-1.5	24.75
085110	10-1-0.5	24.75	085115	25-2.5-0.5	24.75	085119	30-6-3	24.75
085111	10-2.5-1	24.75	085116	25-5-2.5	24.75	085120	30-15-3	24.75
085112	15-3-0.15	24.75	085117	25-10-2.5	24.75	085121	15-3-1.5	24.75

Dimensions

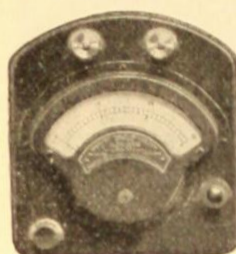
Vertical, 4.6 inches, horizontal, 4.4 inches; depth, 1.5 inches.

WESTON MINIATURE PRECISION INSTRUMENTS

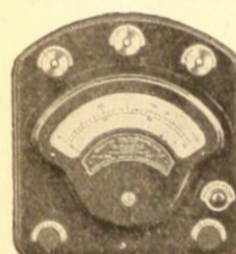
FOR DIRECT CURRENT

MODEL 280—PORTABLE VOLT-AMMETERS

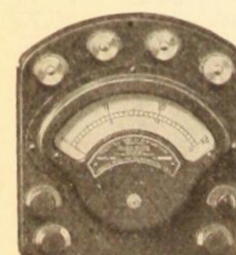
These instruments possess the same characteristics and advantages as the switchboard instruments. They should be of great value in many kinds of commercial testing where the simultaneous reading of current and e. m. f. is not necessary.



Single Range



Double Range



Triple Range

Single Range

Trade No.	RANGE Volts	Amperes	Price Each	Trade No.	RANGE Volts	Amperes	Price Each
085142	1.5	3	\$28.50	085173	20	4	\$28.50
085143	3	1.5	28.50	085174	20	20	28.50
085144	3	3	28.50	085175	25	1	28.50
085145	3	12	28.50	085176	25	5	28.50
085146	3	15	28.50	085177	25	25	28.50
085147	3	30	28.50	085178	30	1.5	28.50
085148	4	8	28.50	085179	30	3	28.50
085149	5	1	28.50	085180	30	6	28.50
085150	5	5	28.50	085181	30	30	28.50
085151	5	10	28.50	085182	40	2	28.50
085152	6	6	28.50	085183	40	8	28.50
085153	6	12	28.50	085184	40	20	28.50
085154	6	30	28.50	085185	50	1	28.50
085155	7.5	1.5	28.50	085186	50	5	28.50
085156	7.5	7.5	28.50	085187	50	10	28.50
085157	7.5	15	28.50	085188	50	25	28.50
085158	8	2	28.50	085189	60	3	28.50
085159	8	4	28.50	085190	60	15	28.50
085160	8	8	28.50	085191	60	30	28.50
085161	8	20	28.50	085192	75	15	28.50
085162	10	1	28.50	085193	80	20	28.50
085163	10	5	28.50	085194	100	1	28.50
085164	10	10	28.50	085195	100	10	28.50
085165	10	25	28.50	085196	100	25	28.50
085166	12	30	28.50	085197	120	3	28.50
085167	15	1.5	28.50	085198	120	12	28.50
085168	15	3	28.50	085199	120	30	28.50
085169	15	7.5	28.50	085200	150	1.5	28.50
085170	15	15	28.50	085201	150	3	28.50
085171	15	30	28.50	085202	150	15	28.50
085172	20	2	28.50	085203	150	30	28.50

Double Range

085204	20-2	8-2	34.50	085213	50-5	5-0.1	34.50
085205	20-8	20-2	34.50	085214	50-5	10-1	34.50
085206	25-2.5	2.5-0.25	34.50	085215	50-5	25-2.5	34.50
085207	25-2.5	5-0.5	34.50	085216	50-5	25-5	34.50
085208	25-2.5	25-2.5	34.50	085217	80-8	20-2	34.50
085209	30-3	15-1.5	34.50	085218	100-10	25-2.5	34.50
085210	30-3	30-3	34.50	085219	150-15	15-1.5	34.50
085211	50-2.5	5-0.5	34.50	085220	150-15	30-3	34.50
085212	50-5	1-0.1	34.50	.....	.....	....	.....

Triple Range

085221	25-10-2.5	10-2.5-1	40.50	085231	50-25-2.5	25-2.5-0.5	40.50
085222	30-3-1.5	30-3-1.5	40.50	085232	50-25-5	25-5-2.5	40.50
085223	30-6-3	30-6-3	40.50	085233	50-25-10	10-1-0.5	40.50
085224	30-15-3	15-3-0.150	40.50	085234	50-25-10	10-2.5-1	40.50
085225	30-15-3	30-15-3	40.50	085235	50-25-10	25-10-5	40.50
085226	40-20-4	20-4-2	40.50	085236	80-20-4	20-8-2	40.50
085227	50-5-2.5	5-2.5-0.25	40.50	085237	100-25-2.5	25-10-2.5	40.50
085228	50-5-2.5	10-1-0.1	40.50	085238	150-15-1.5	30-3-1.5	40.50
085229	50-5-2.5	25-5-2.5	40.50	085239	150-15-3	15-3-1.5	40.50
085230	50-25-2.5	10-5-0.5	40.50	085240	150-15-3	30-3-1.5	40.50

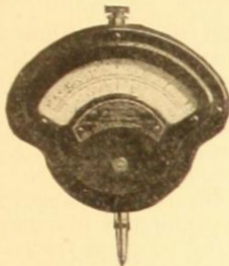
Dimensions

Vertical, 4.6 inches; horizontal, 4.4 inches; depth, 1.5 inches.

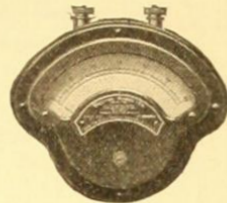
WESTON MINIATURE PRECISION INSTRUMENTS

FOR DIRECT CURRENT

MODEL 279, PORTABLE BATTERY TESTERS



Voltmeter



Ammeter

These instruments consist of a battery testing voltmeter and a variety of ranges of ammeters. They are designed to facilitate the accurate and rapid testing of single cells of storage and other batteries. The voltmeter is provided with a special detachable spike terminal, designed to minimize the time required to make a test. In form it resembles somewhat a speed indicator, and is extremely convenient to manipulate and to read.

The ammeter also has conveniently arranged binding posts, but otherwise it resembles in general appearance the switchboard instruments. The form of the case of both the voltmeter and the ammeter is convenient to hold in the hand, thus adding much to the general usefulness of the instruments.

VOLTMETERS

Trade No.	Range Volts	Price Each
085261	3-0-3	\$17.00

ZERO CENTER AMMETERS

Trade No.	Range Amperes	Price Each	Trade No.	Range Amperes	Price Each
085262	1-0-1	\$17.00	085267	7.5-0-7.5	\$17.00
085263	1.5-0-1.5	17.00	085268	10-0-10	17.00
085264	2-0-2	17.00	085269	15-0-15	17.00
085265	3-0-3	17.00	085270	20-0-20	17.00
085266	5-0-5	17.00	085271	30-0-30	17.00

ZERO LEFT AMMETERS

085272	1	17.00	085278	7.5	17.00
085273	1.5	17.00	085279	10	17.00
085274	2	17.00	085280	15	17.00
085275	3	17.00	085281	20	17.00
085276	4	17.00	085282	25	17.00
085277	5	17.00	085283	30	17.00

DIMENSIONS

Voltmeters

Vertical, case only, 3.5 inches, with terminal, 4.9 inches; horizontal, 4.2 inches; depth, 1.35 inches.

Ammeters

Vertical, 3.7 inches; horizontal, 4.2 inches; depth, 1.4 inches.